

Active Human Kallikrein-Related Peptidase 3

Cat. No. KLK3-1536H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Supplied as solution in 0.05 M sodium phosphate buffer, pH 7.5, containing 0.15 M NaCl and 0.09% sodium azide. Sterile filtered using a 0.2 µm filter. Starting material is tested and found negative for HIV 1&2 antibodies, Hepatitis B surface antigen, and HCV antibodies. Quantitative and qualitative analysis by RID. Protein determination by the method of Lowry and OD of 280 nm using an extinction coefficient for a 0.1% solution and 1 cm path.
Species	Human
Source	Human seminal fluid
Description	KLK3 is a protein produced by the cells of the prostate gland. KLK3 is present in small quantities in the serum of men with healthy prostates, but is often elevated in the presence of prostate cancer and in other prostate disorders. A blood test to measure KLK3 is considered the most effective test currently available for the early detection of prostate cancer, but this effectiveness has also been questioned, since it has a positive predictive value of only about 35%.
Form	Liquid. The human KLK3 is supplied in a 0.05M phosphate buffer with 0.15M sodium chloride, pH 7.5 and 0.09% sodium azide as preservative. It is sterile filtered through a 0.2 µm membrane.
Activity	0.5-5 mg PSA/ml.
Purity	>96%

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Concentration	1.0 mg/ml
pI	6.2-6.5
Analysis	SDS-PAGE: One band at 30 kD.
Cellulose Acetate Electrophoresis	One band with gamma electrophoretic mobility.
Storage	Store at +2-8°C.
Pathways	Coregulation of Androgen receptor activity; Diabetes pathways; FOXA1 transcription factor network; Pathways in cancer; Prostate cancer; Regulation of Androgen receptor activity; Regulation of Insulin-like Growth Factor (IGF) Activity by Insulin-like Growth Factor Binding Proteins (IGFBPs)

GENE INFORMATION

Gene Name	KLK3 kallikrein-related peptidase 3 [Homo sapiens]
Official Symbol	KLK3
Synonyms	KLK3; kallikrein-related peptidase 3; APS; PSA; hK3; KLK2A1; prostate-specific antigen; seminin; P-30 antigen; kallikrein-3; semenogelase; gamma-seminoprotein; prostate specific antigen; EC 3.4.21.77; kallikrein 3, (prostate specific antigen); Prostate-specific antigen; Gamma-seminoprotein; Kallikrein-3; Semenogelase
Gene ID	354
mRNA Refseq	NM_001030047

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Protein Refseq	NP_001025218
MIM	176820
UniProt ID	P07288
Chromosome Location	19q13.41
Function	peptidase activity; serine-type endopeptidase activity; serine-type peptidase activity
Renderingbased on PDB 1PFA	